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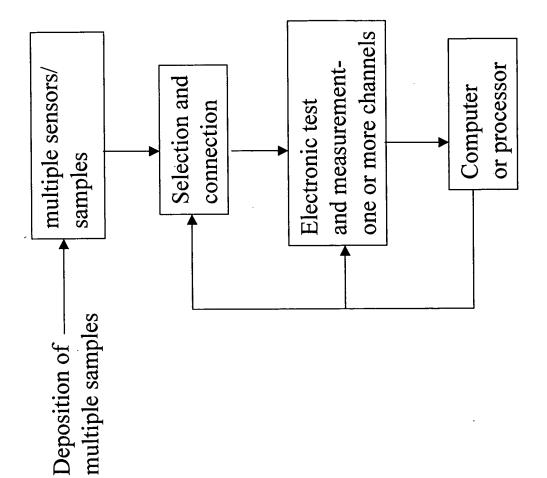
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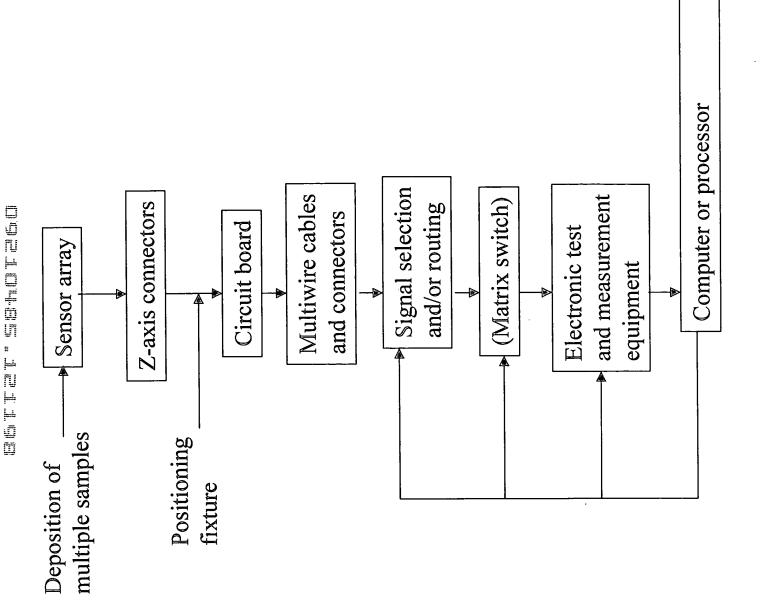
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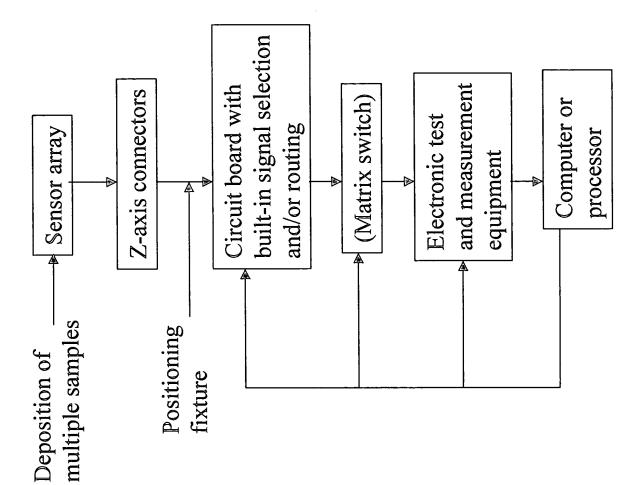
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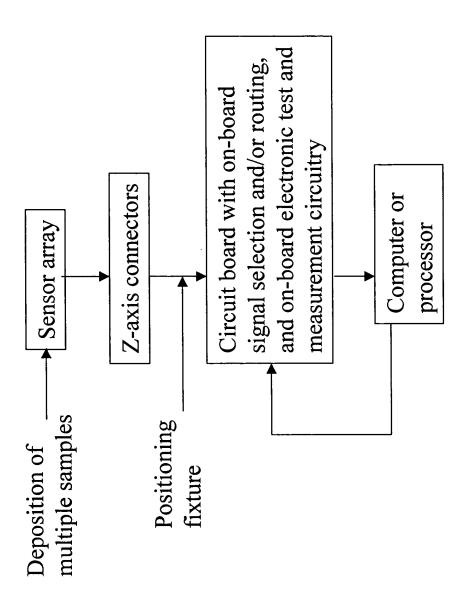


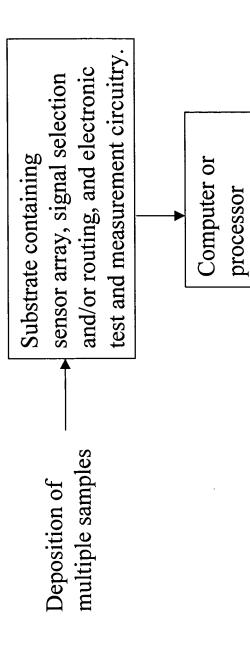
Generic system concept





DOMLOGO . HELLOGO





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FIG 2A

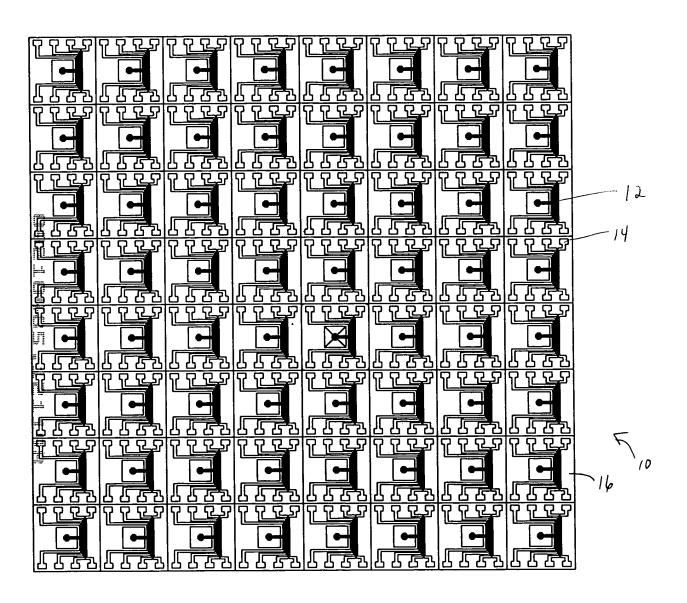
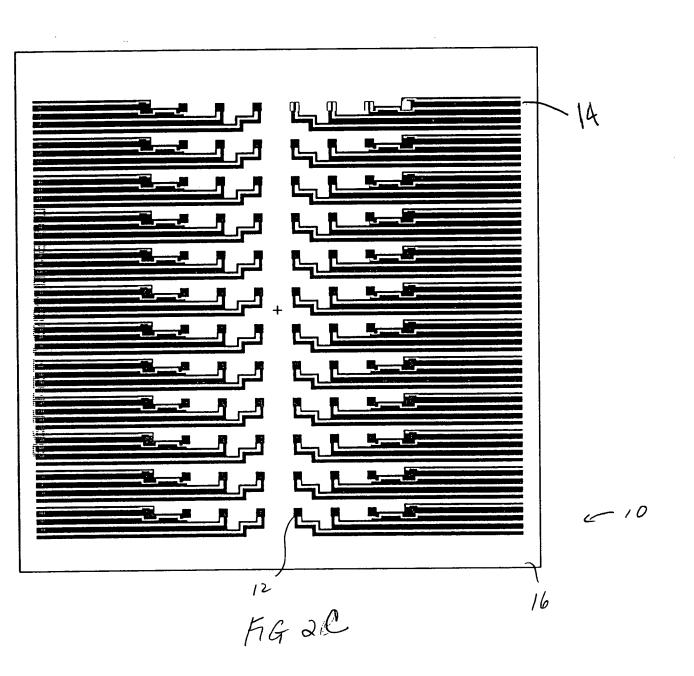


FIG 2B.



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| | <u> </u> | <u>-</u> | 믐 | | 믑 | <u> </u> | <u>-</u> - | <u></u> | 믕 | <u> </u> | 8 | <u></u> | 00 | <u></u> | <u></u> | <u>0</u> | 00 | 00 | <u>-</u> | <u></u> | 00 | <u>-</u> | <u></u> | | | DD-74 | | | UIU 7K | _ | |
| | <u> </u> | 믐 | | 믕 | 00 | <u></u> | | <u></u> | 00 | 00 | <u>-</u> | <u>-</u> | 00 | 믑 | <u>o</u> | <u>-</u> | 00 | 0 | <u>-</u> | <u></u> | 00 | 0 | <u></u> | 믐 | 00 | 믐 | | <u></u> | | (2,3) | , |
| Ó | 3 | - - - | 믕 | 믕 | 00 | 00 | <u>-</u> | | 00 | | <u>-</u> | 믐 | | 믐 | <u>0</u> | <u></u> | 믐 | 믐 | 00 | <u></u> | 00 | 믐 | 믐 | <u>-</u> - | <u></u> | 믐 | | <u> </u> | 몸 | 0 | |
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| | 7)#(8, | - - - | <u>음</u> | 믐 | <u> </u> | 吕 | <u>-</u> | 0 | <u>-</u> | 음 - | 믕 | | <u></u> | 믐 | 믕 | | <u>-</u> | | 믐 | | <u></u> | 믐 | <u>음</u> | 믐 | 00 | 吕 | | 5 기 음 | | | |
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FIG 2D

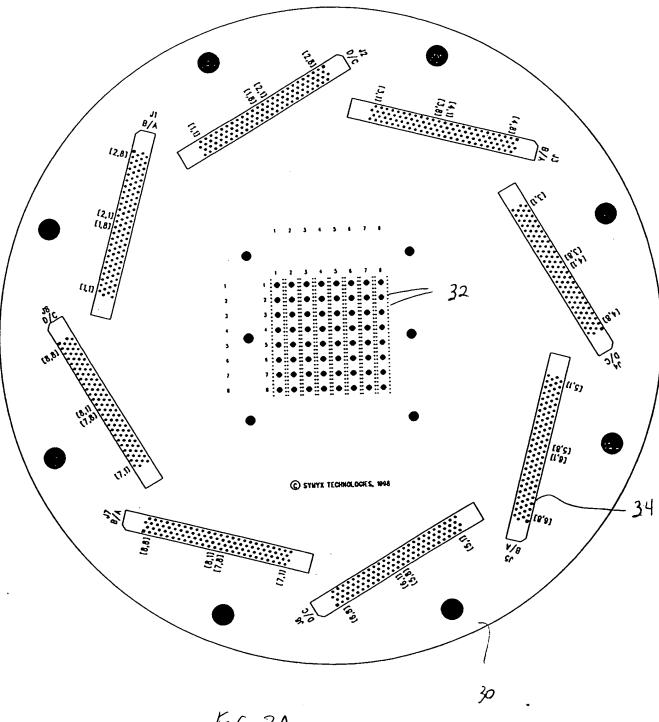
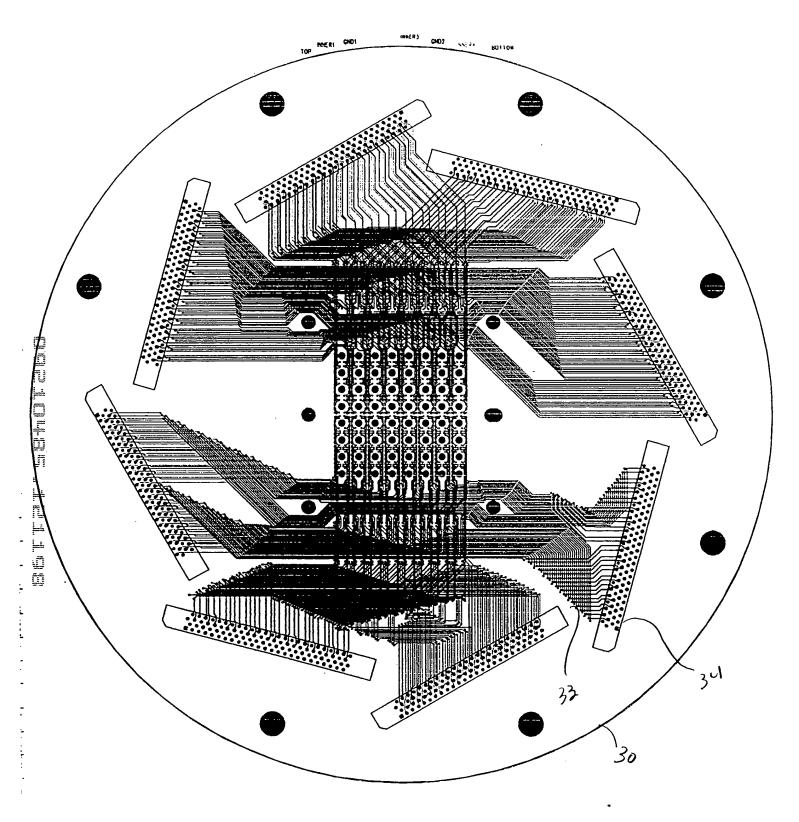
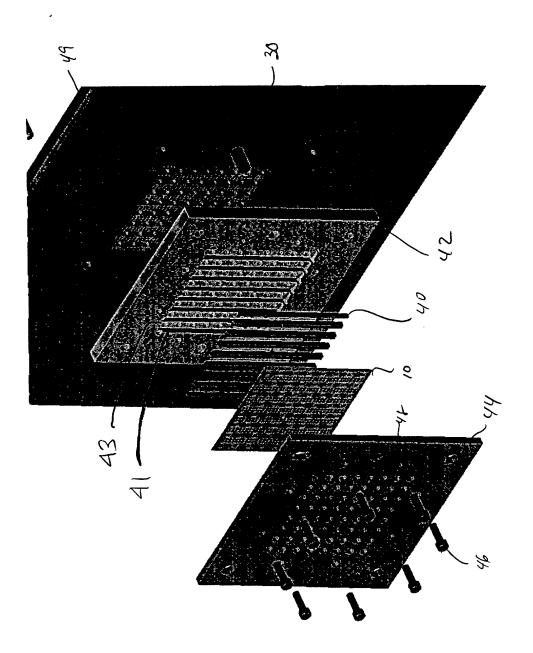


FIG 3A



F16 3B



H6 H

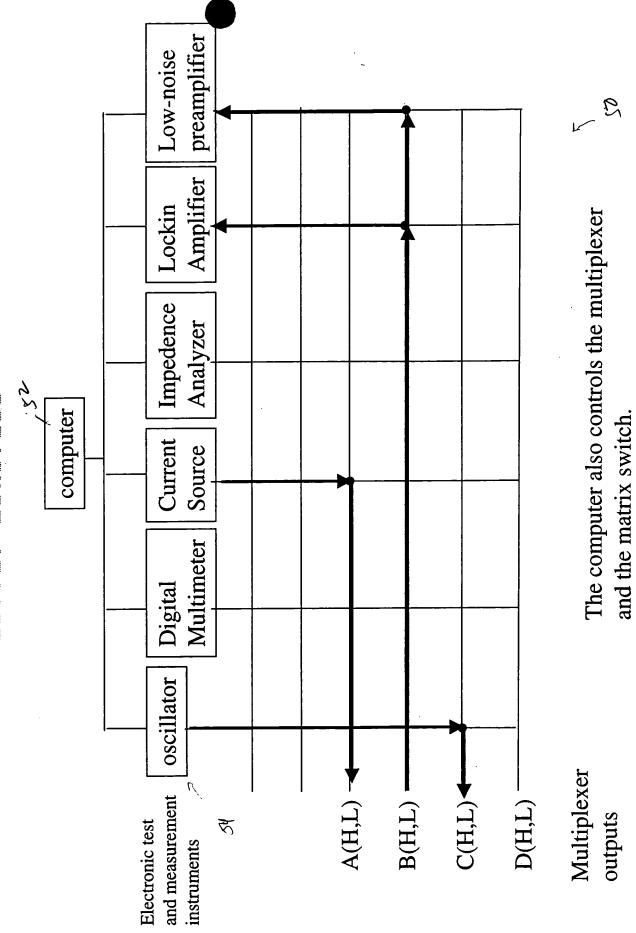
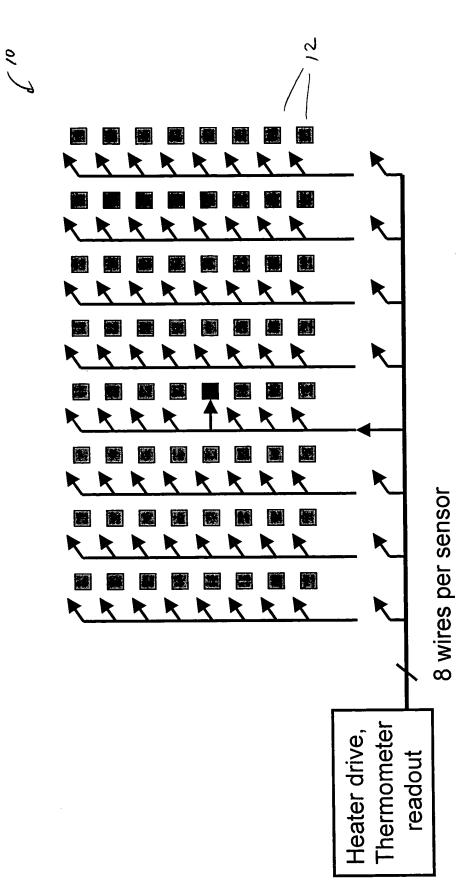
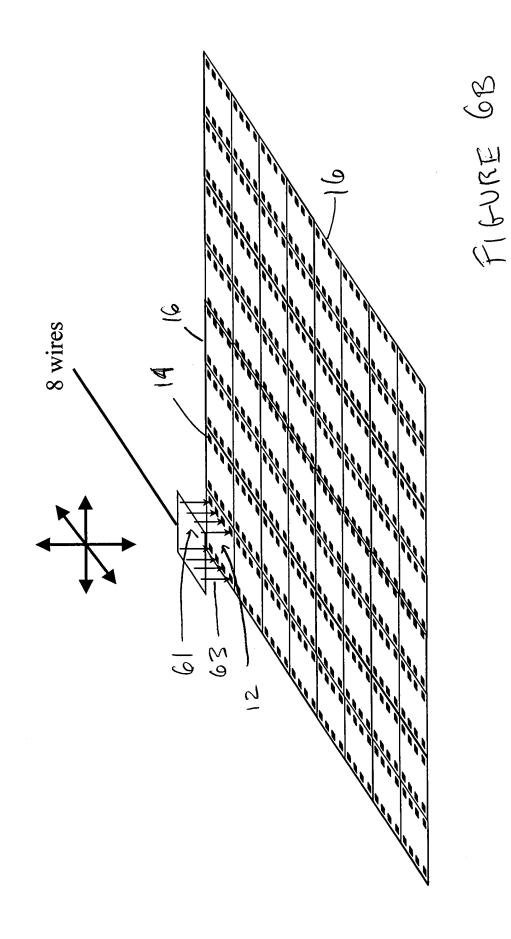
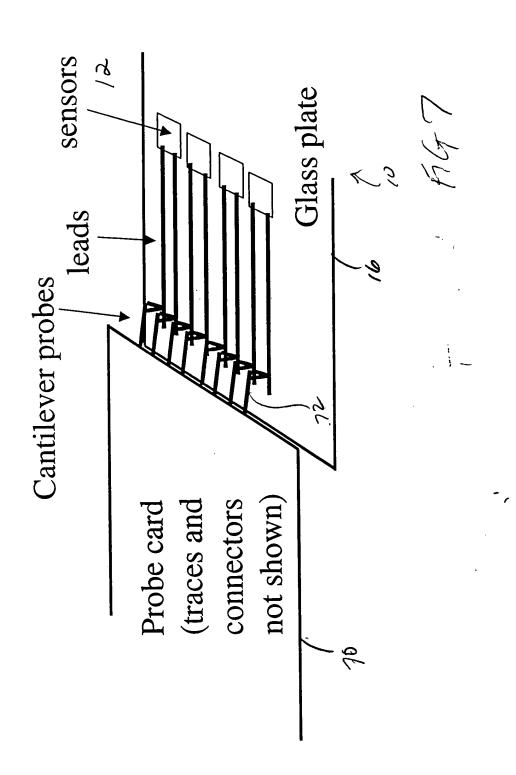
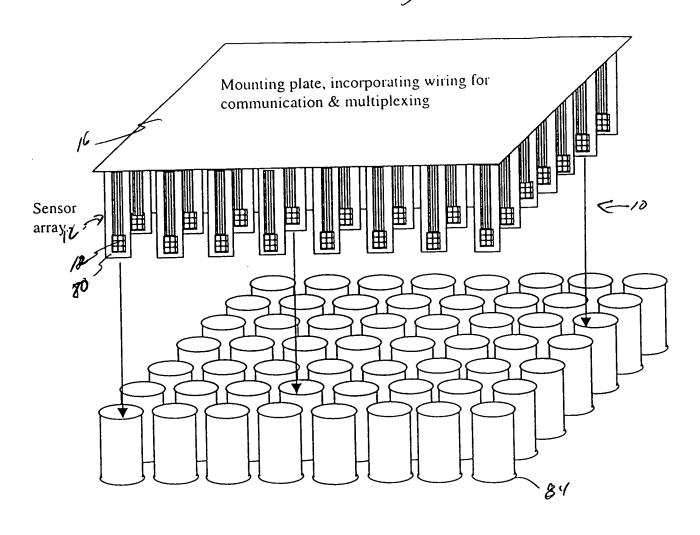


FIG S







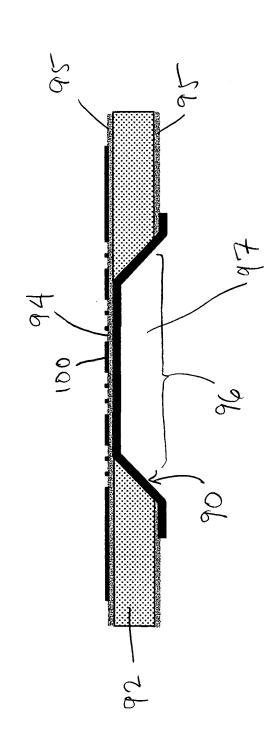


Array of vessels containing different solutions

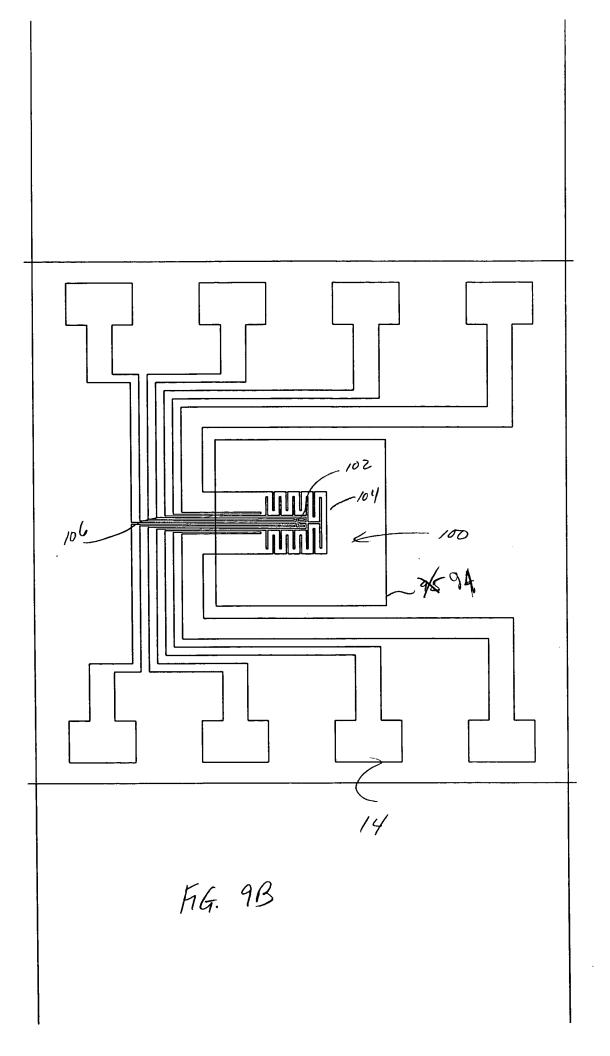
F14. 8

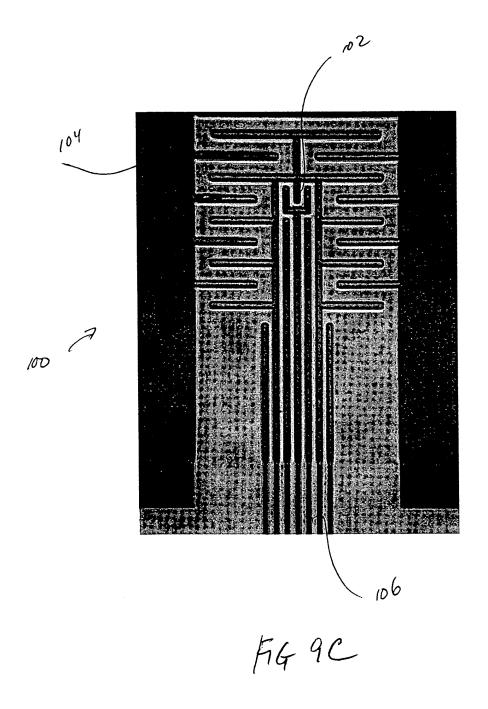
Measurements are made either 1) on solutions, using immersed sensors; or 2) on dried films deposited on the sensors by dipping, removing, and drying.

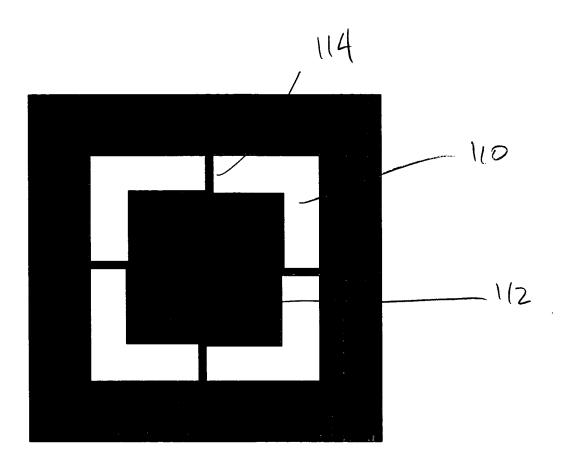
CONFIDENTIAL INFORMATION Symyx Technologies, April 13, 1998



£10.94







F16.10

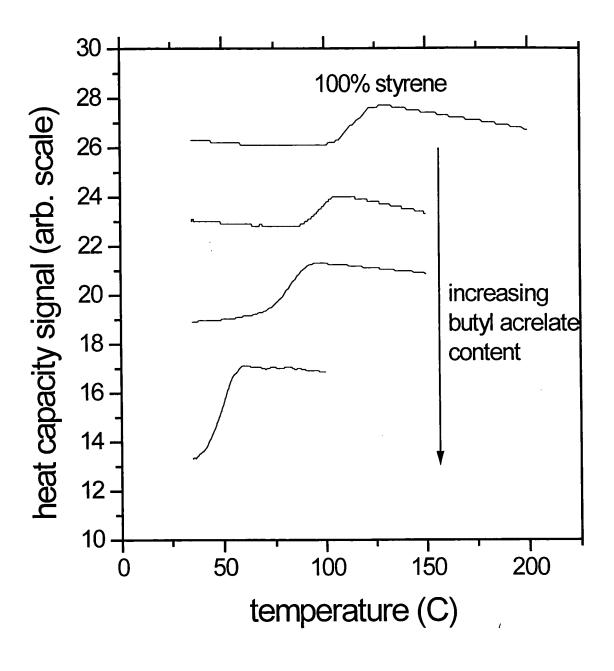
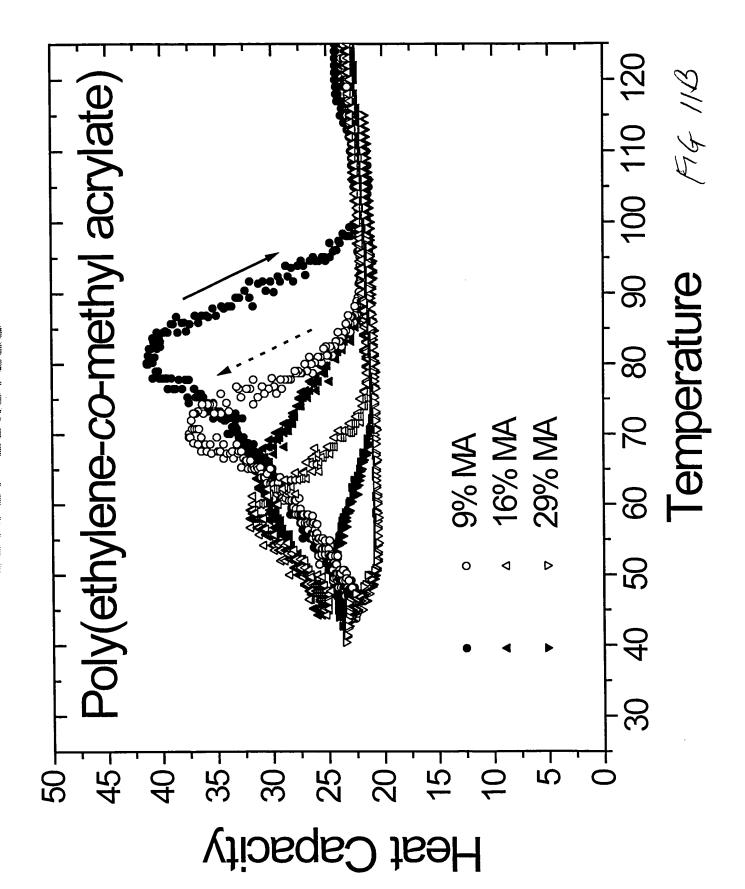
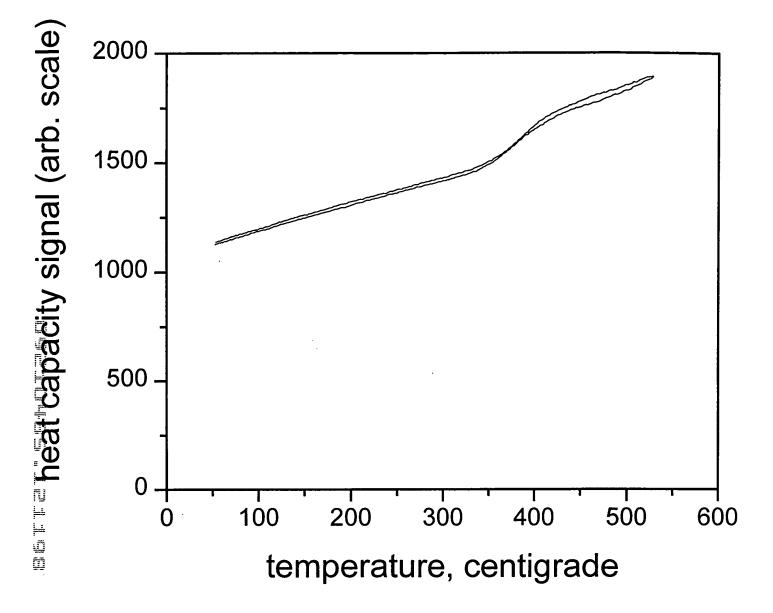


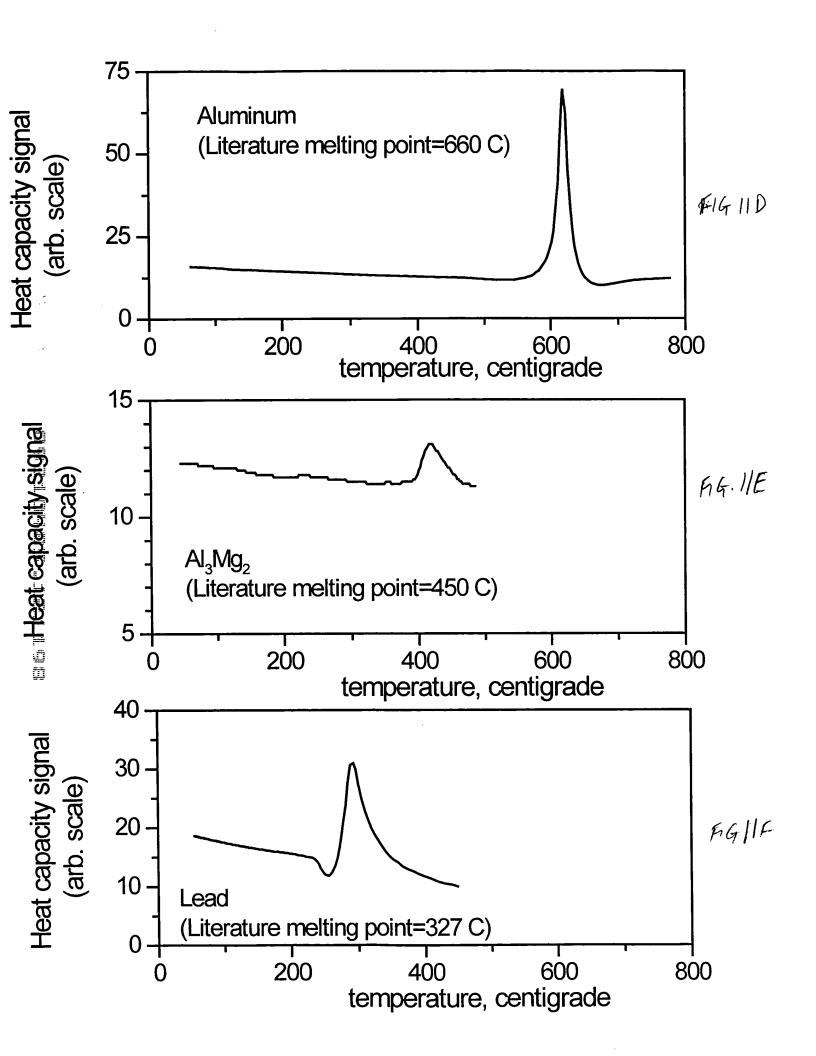
FIG 11A

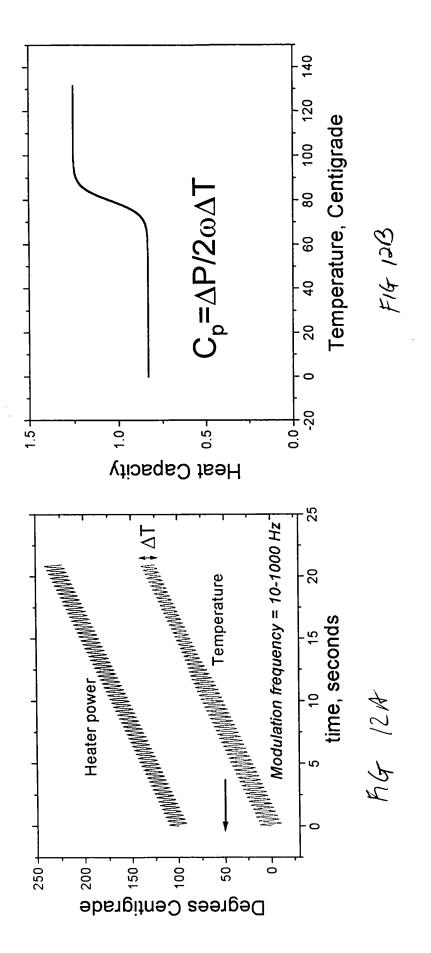




Glass transition in a thin film of low-Tg silica solder glass

FIG //C





Summing amplifier

DC current source

Lockin at frequency 200

 $V_{H}(t)$ (ramp)

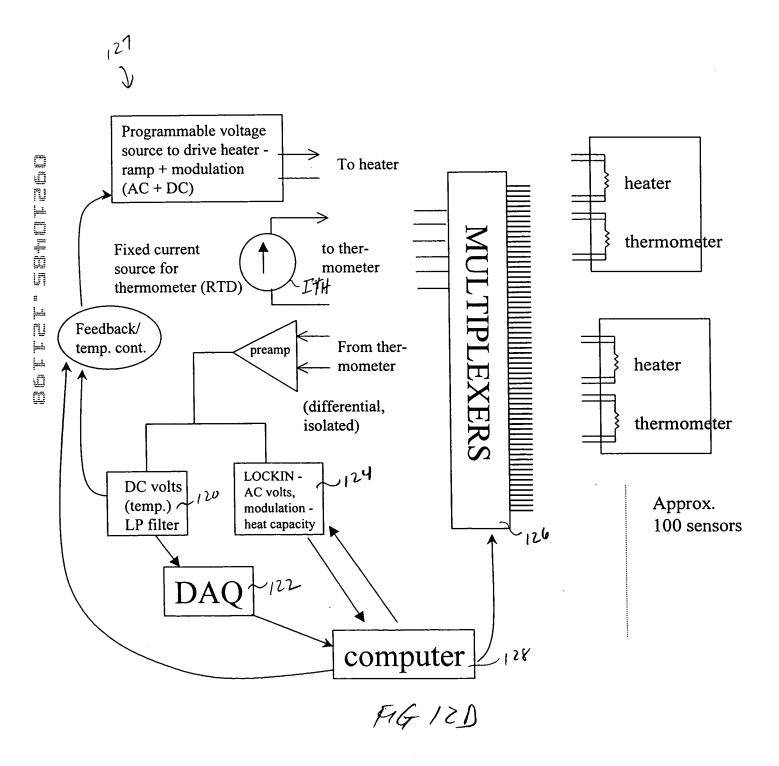
 $v_{\rm H}(t) = v \sin(\omega t)$

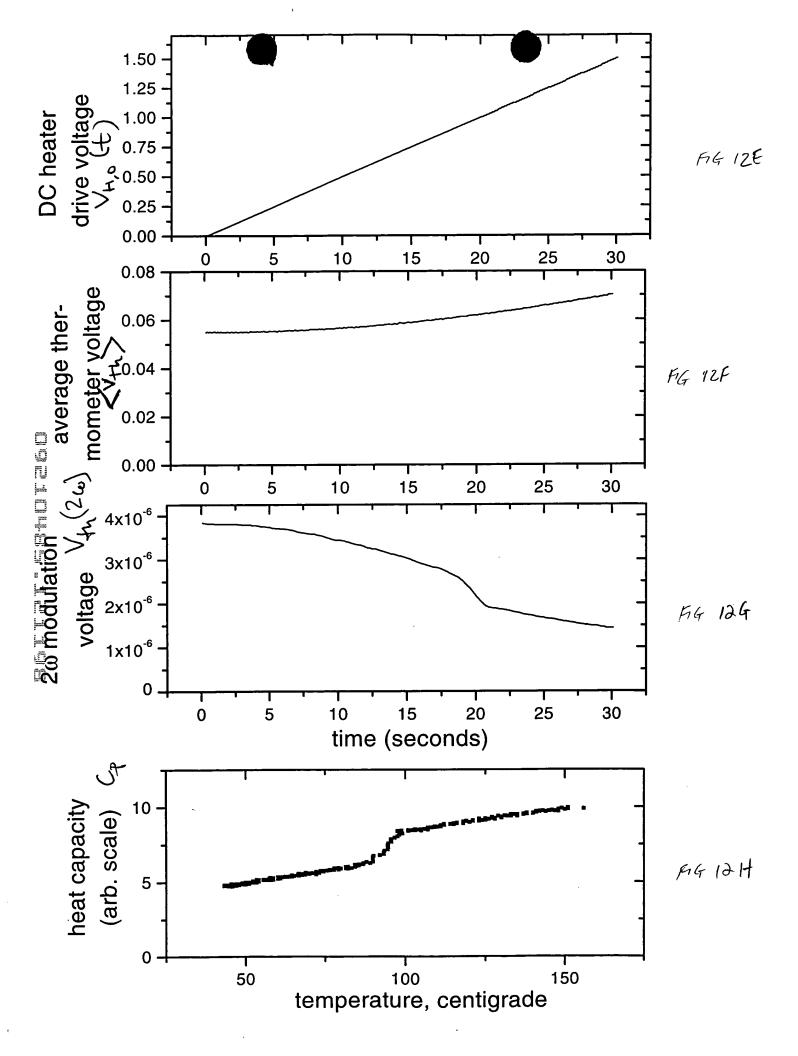
Differential Analog-topre-amplifier digital with low pass converter

Heatrer thermometer

MA 12C

filtering.





DOUTOFOR THILOO

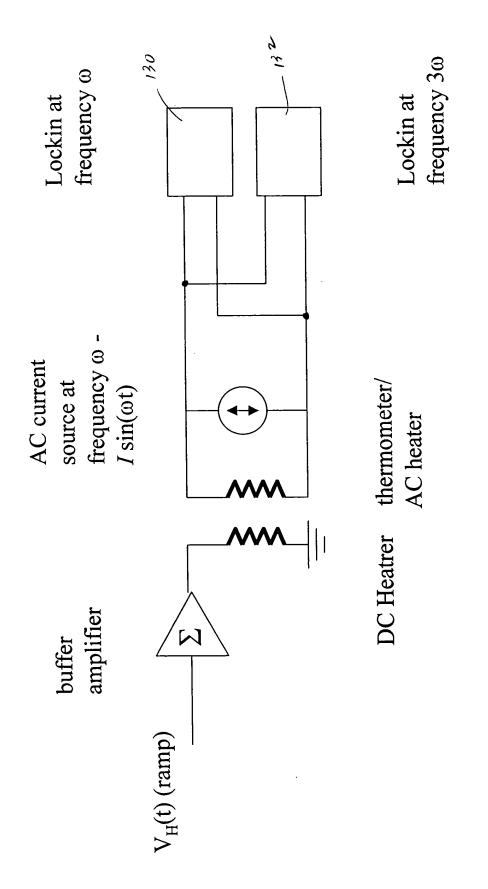
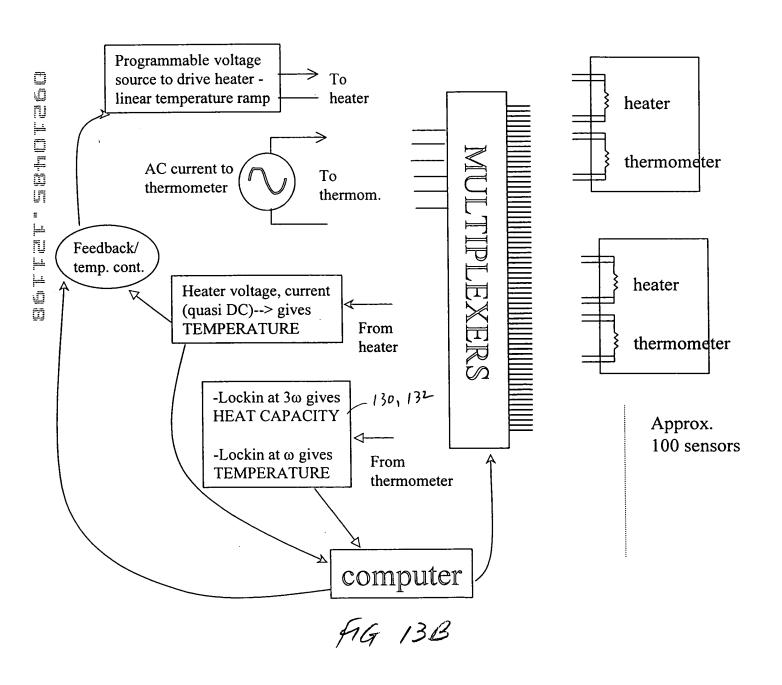
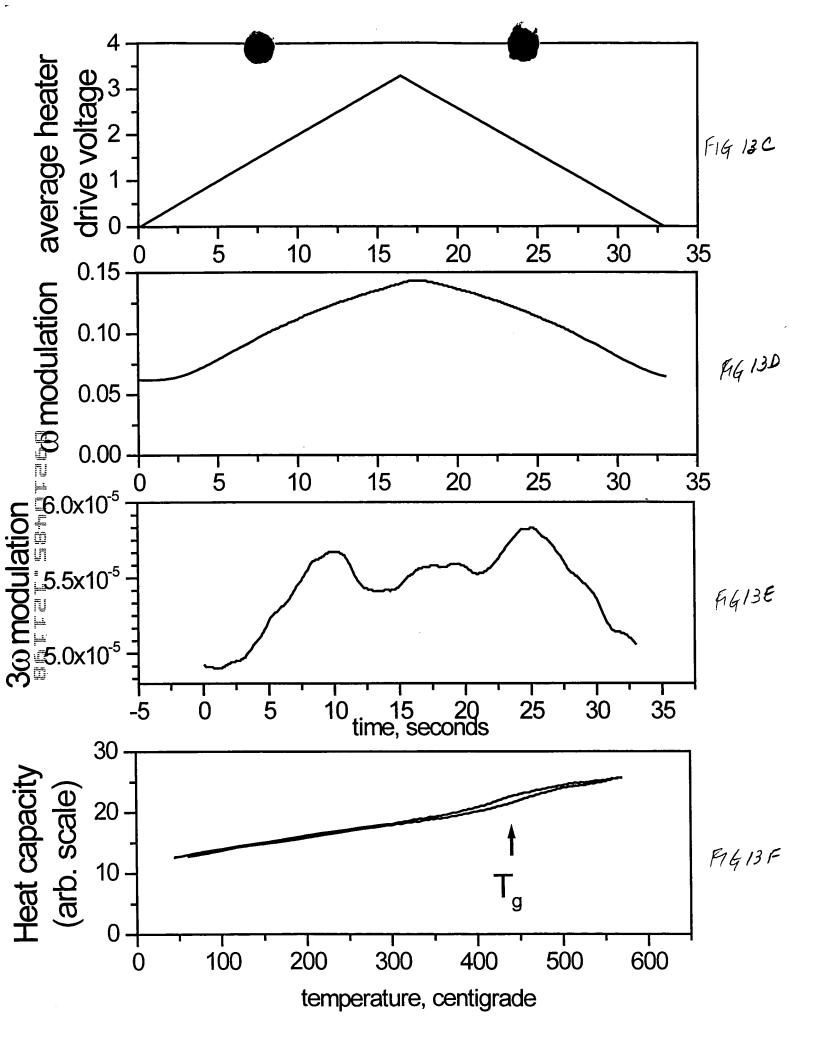
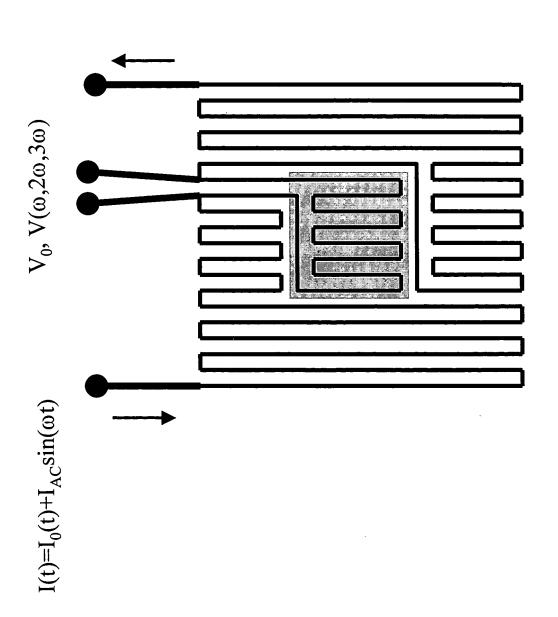


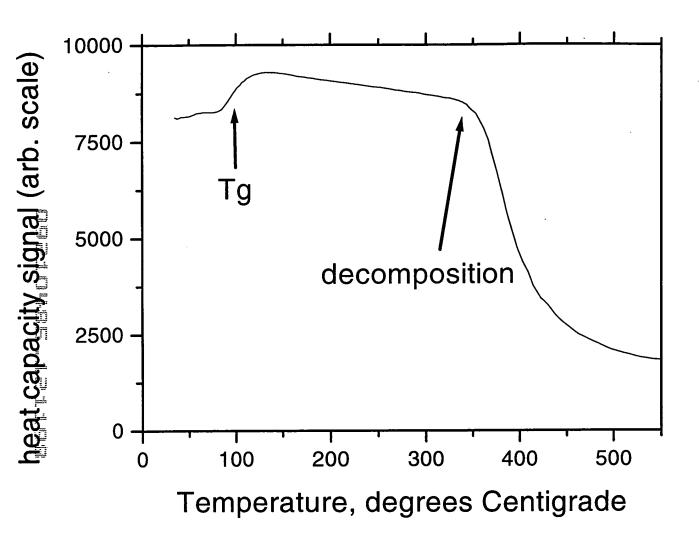
FIG 13A







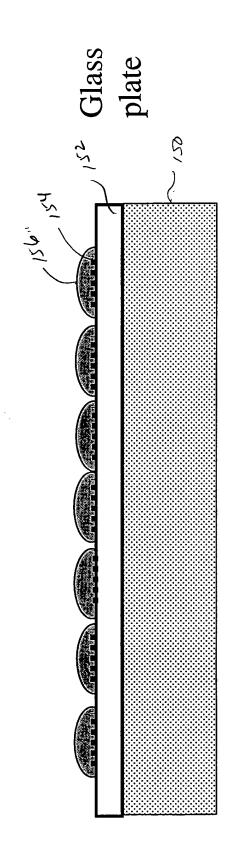
FLWRE 13G



Detection of glass transition and thermal decomposition of a polymer film

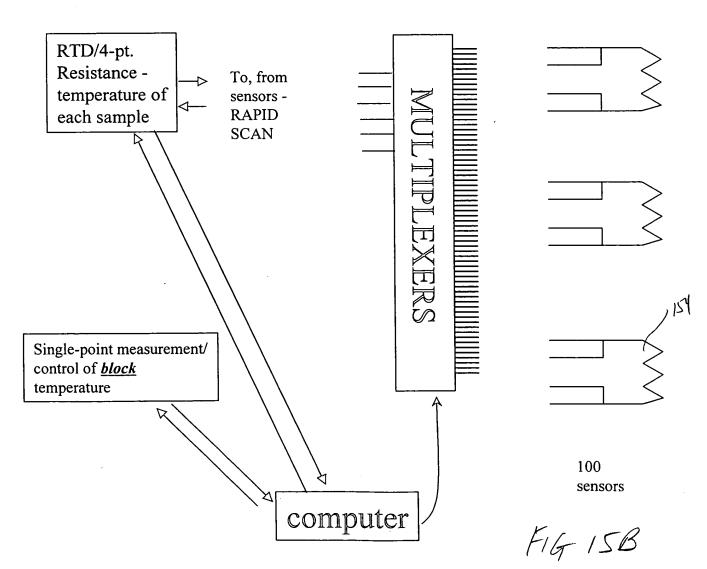
FIG 14

Sensors/samples at temperatures Tij

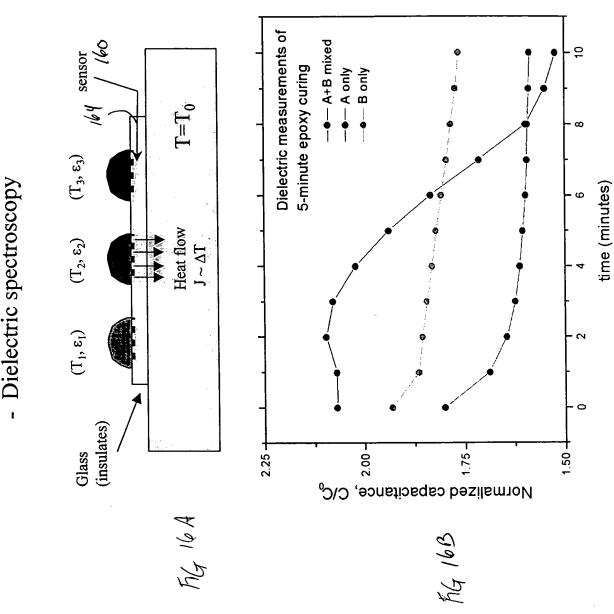


Block at temperature T0

FIG 15A

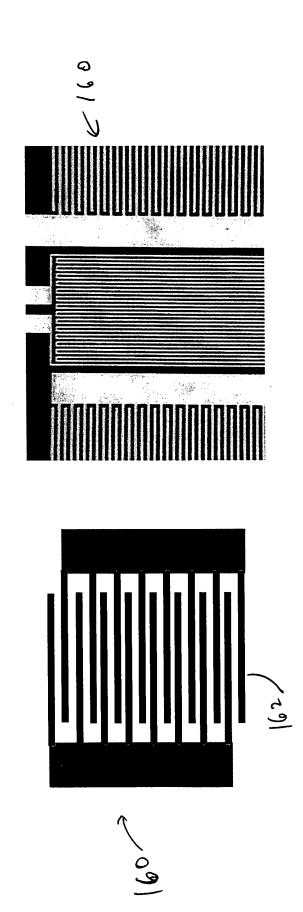


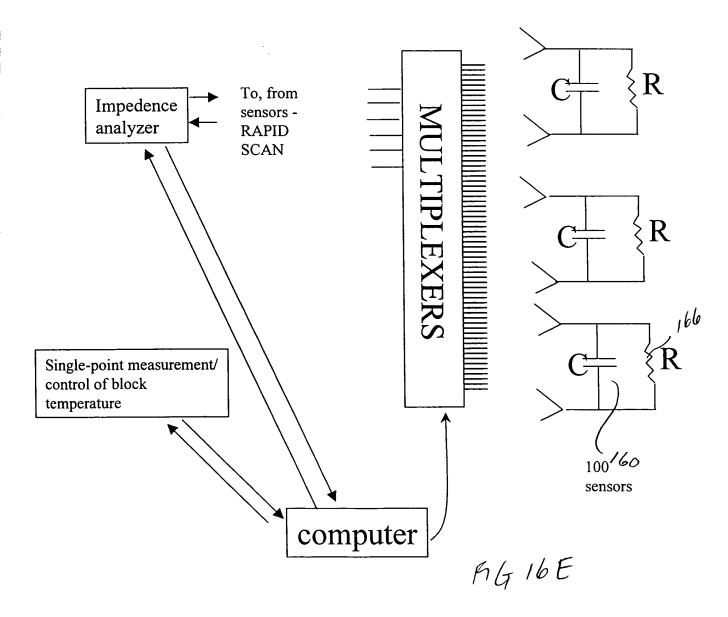
- Temperature/exotherm

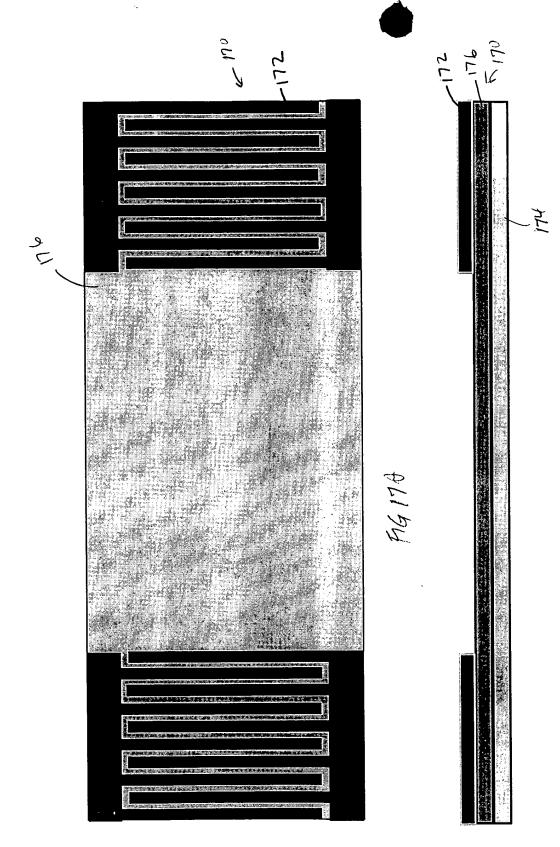


(P)

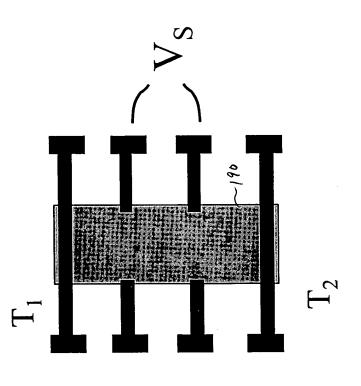
716.16C

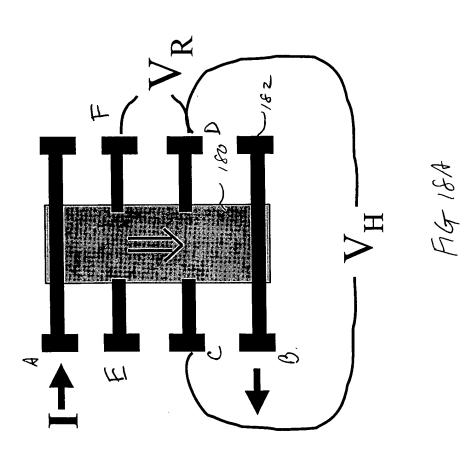




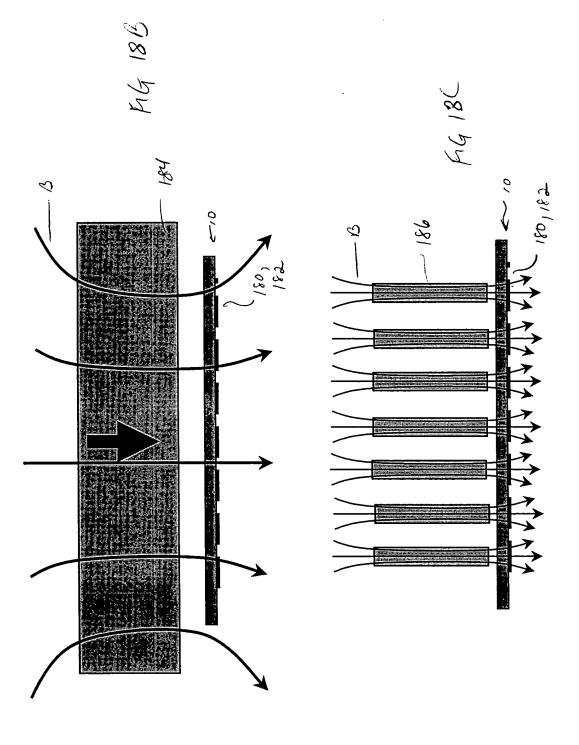


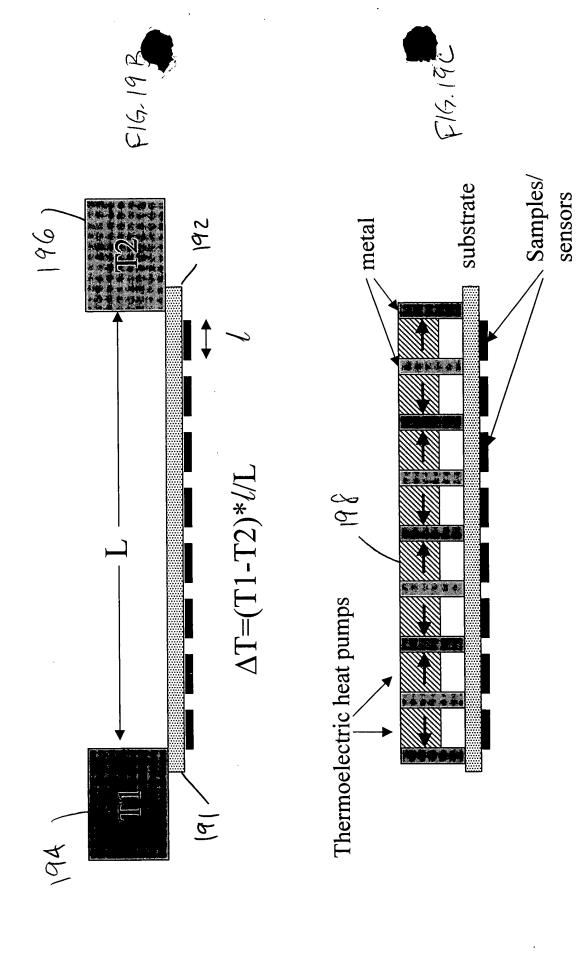
F1917B



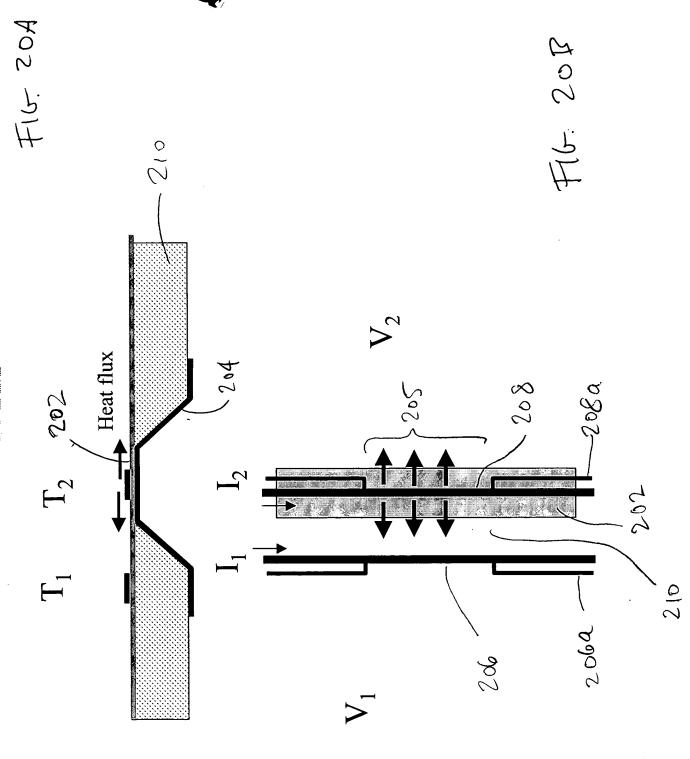


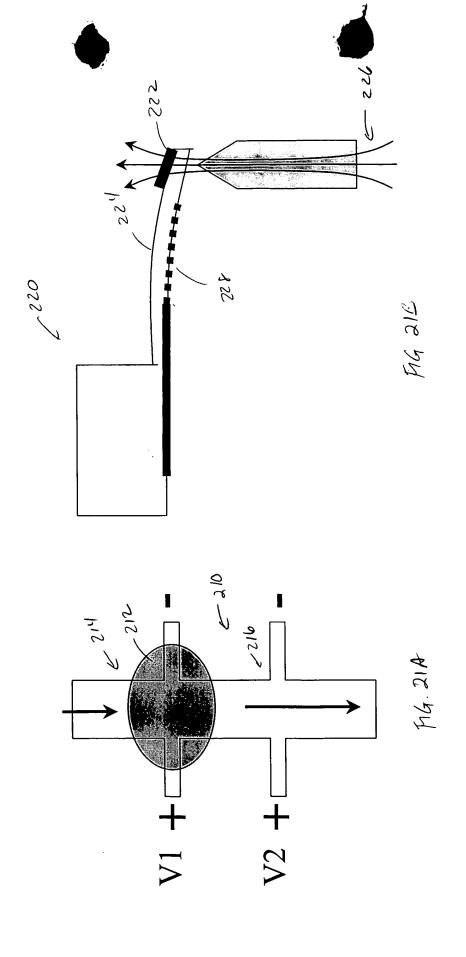
FG 194





Note - electrical contacts to sensors not shown.





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